

(No Model.)

O. YOUUMAN.
HAY STACKING DERRICK.

No. 347,755.

Patented Aug. 17, 1886.

Fig. 1

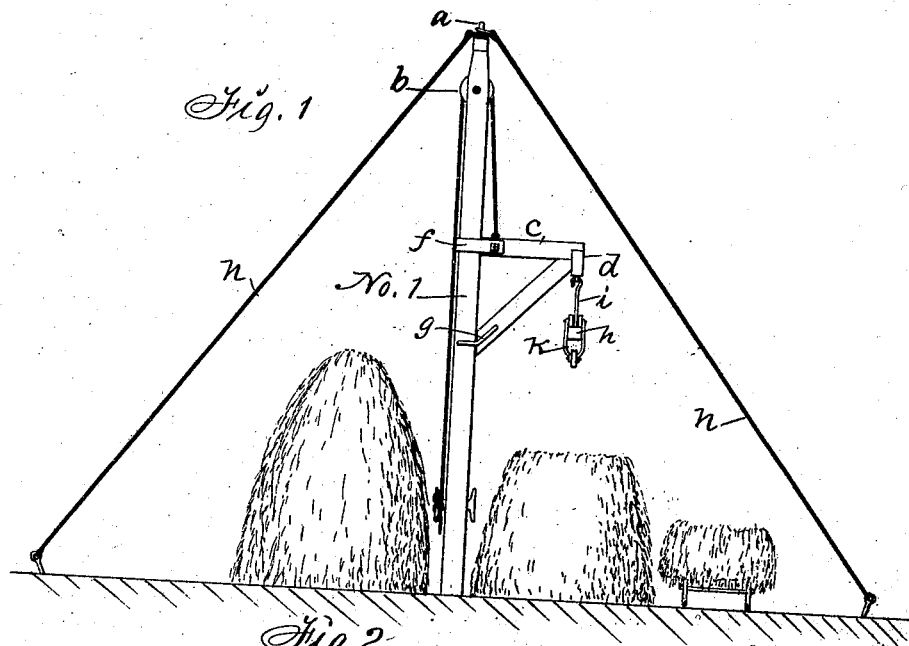
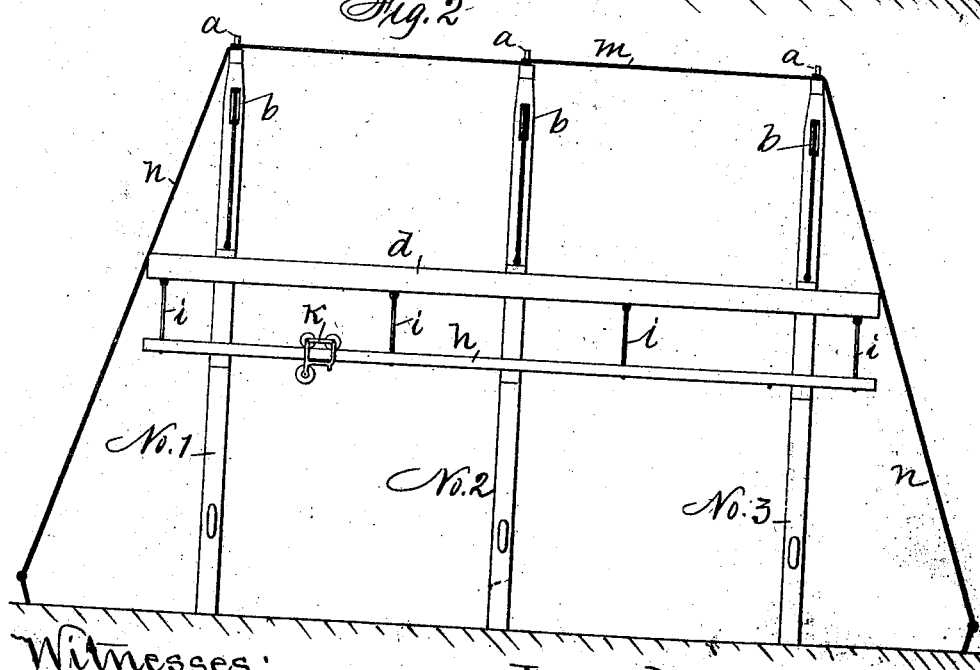


Fig. 2



Witnesses:

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UNITED STATES PATENT OFFICE.

ORSON YOUMAN, OF WALNUT, IOWA.

HAY-STACKING DERRICK.

SPECIFICATION forming part of Letters Patent No. 347,755, dated August 17, 1886.

Application filed February 23, 1886. Serial No. 192,770. (No model.)

To all whom it may concern:

Be it known that I, ORSON YOUMAN, a citizen of the United States of America, and a resident of Walnut, in the county of Pottawattamie and State of Iowa, have invented a Hay-Stacking Derrick, of which the following is a specification.

My object is to facilitate the handling of loose hay and the building of stacks, and to save time, labor, and expense in placing hay and straw in stacks when barns are not available.

My invention consists in the structure hereinafter described, pointed out in the claims, and illustrated in the accompanying drawings.

Figure 1 is an end view, and Fig. 2 a side view, showing my complete device in position as required for practical use.

Nos. 1, 2, and 3 are wooden posts, that may vary in size as desired. They have pins *a* formed integral therewith or fixed to their tops, to extend upward, and pulleys *b*, journaled in mortises near their tops or otherwise attached.

c c c are brackets rigidly fixed to a straight wooden beam, *d*, at equal distances apart, to extend laterally, to produce a frame adapted to be combined with the posts when they are set up to form a derrick.

f represents a detachable metal loop or clasp fixed to the upper bar and free end of each one of the brackets, by means of a bolt or in any suitable way, to serve as a bearing to engage one of the posts.

g represents a metal plate or projection on each side of the free end of the lower and inclined bar of each bracket, that will serve as a guide in the up-and-down movements of the complete frame, when combined with the posts.

h represents a hay-carrier track suspended from the beam *d* by means of links *i*, or in any suitable way, in such a manner that a carrier, *k*, can be readily moved thereon from one end of the complete derrick to the other, as required in carrying loaded forks to different positions, and dropping hay upon the stack at different points.

m is a rope or chain having rings or eyes at its ends and one at its center, that engage the pins *a* on the tops of the posts. Guys *n*, having rings or eyes at their top ends, are also combined with the pins *a* at the tops of the posts, and fastened to the ground in a common way by means of pegs attached to their lower ends.

Ropes are attached to the brackets *c* and passed over the pulleys *b*, to be fastened to cleats fixed to the lower portions of the posts, as required, to retain the complete adjustable frame at any elevation desired.

In the practical use of my derrick, constructed as shown and described, I bring a wagon loaded with hay or straw in position, as illustrated in Fig. 1, and then, by means of a hay-fork and tackling connected with the carrier *k* on the track *h*, unload the wagon and build a stack aside of the posts. After finishing one stack I detach the frame that supports the track and carrier, and place it on the opposite sides of the posts, and then build a second stack before removing the derrick.

I claim as my invention—

1. A frame comprising two or more brackets having loops or clasps on their inner ends, and a straight beam and a hay-carrier track suspended parallel therewith, in combination with two or more derrick-posts, for the purposes stated.

2. The improved hay-stacking derrick comprising two or more posts having pins at their top ends and pulleys near their tops, a detachable and adjustable frame having loops and guides to engage the posts, and a suspended hay-carrier track, guys fixed to the pins at the tops of the posts, and ropes combined with the adjustable frame and the pulleys in the posts, to operate in the manner set forth, for the purposes stated.

ORSON YOUMAN.

Witnesses:

J. H. HENRY,
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